۲X	Jork	Ord	lar '	m	54120	
V١	YORK	Ort	ier .	W	<b>341</b> ∠U	

D

Required Date: 69/12/2009



Page 1

November 30, 2009 11:41:48 AM

Item ID:

D2580-1

Accept

Setup Start

Stop



**Revision ID:** Item Name: **Start Date:** 

01/12/2009

Start Qty: 2.00 Reg'd Qty: 2.00

**Cust Item ID:** 

**Customer:** 

Reference:

Approvals:

Process Plan:

205 Skidtube bent detail

Date:

Tooling:

SPC (Y/N):

Date:

Date:

Run

Start



Stop

Plan Accept Reject Reject Insp. Operation Set Up/ Draw Draw Sequence ID/ Qty Qty Number Stamp Code Work Center ID Description Run Hours Number Rev.

Draw Nbr **Revision Nbr** D2580 Rev D

QC:

100

HandFinish

Memo

0.00

0.00

Hand Finishing

1- Inspect mat'l D2500-1-190 for damage.

2- Chemical Conversion Coat as per QSI 005 4.1

101

OC3- Inspect Part Finish

0.00

Memo

0.00

Quality Control

## **Dart Aerospace Ltd**

W/O:			14/0	DI ODDED OUA	1050					w
W/O:	ı.		WO	RK ORDER CHAI	NGES					
DATE	STEP	PROCEDURE CHANGE B			Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector	
									,	
			•							
		·							,	
Part No	:	PAR #:	Fault Categ	ory:	NC	R: Yes	No <b>DQA</b>	:	Date:	
			Disposition: Q							
NCR:		Y		R NON-CONFOR						
DATE	OTED	Description of NC	Corrective Action Section B				Verifie	ation	Approval	Approval
DATE	STEP Description of NC Section A		Initial Action Description Chief Eng Chief Eng			Sign & Date	Verification Section C		Approval Chief Eng	Approval QC inspector
					•					
						•	4			
	<del> </del>					:				
	l	·						i		
								7	-	
										-
		,						į		
	1									

### Work Order ID 54120

D



Page 2

November 30, 2009 11:41:48 AM

Item ID:

D2580-1

Accept

Setup Start

Stop

**Revision ID:** 

Item Name: 205 Skidtube bent detail

Start Date:

01/12/2009

Start Otv: 2.00 Reg'd Oty: 2.00

Cust Item ID:

Customer:

Draw

Number

Reference:

Approvals:

Process Plan: Date:

Operation

Description

Tooling:

Date:

Draw

Rev.

Plan

Code

Accept

Qty

Run

Start



Required Date: 09/12/2009

Date:

SPC (Y/N):

Set Up/

**Run Hours** 

Date:

Stop

Reject

Otv

Insp.

Stamp

Reject

Number

Sequence ID/ Work Center ID

110

Skidtubes Skidtubes

Memo

0.00

0.00

1-Drill pilot holes using drill jig DT 8149 (Do not use cutting fluid)

2-Open holes to 0.500" as per Dwg D2580 without cutting fluid

3-Deburr and blow out all chips from inside of tube

4-Bond web in place per QSI 015.

A/R Sikaflex-291 batch://d 375000 Sikaflex expire date:

Start time: bond for 12hrs

QC5- Inspect part completeness to step on W/O

130

Memo

0.00

0.00

Quality Control

# **Dart Aerospace Ltd**

W/O:		WORK ORDER CHANGES										
DATE	STEP	PR	PROCEDURE CHANGE				Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector		
										ļ		
							1,1		- 000			
٠,	:							i				
							ľ			<b> </b> 		
Part No	:	PAR #:	Fault Cate	gory:	_ NCR: Ye	es No	DQA	:	Date:			
		esolution:										
NCR:			WORK ORD	ER NON-CONFORMA	ANCE (N	CR)			, <u> </u>			
DATE	STEP	Description of NC			VARITICS			ation	Approval	Approval		
	<b>-</b>	Section A	Initial Chief Eng	Action Description Chief Eng		n & ate	Sectio		Chief Eng	QC Inspector		
										٠		
										·		
						:						

### Work Order ID 54120



Page 3

November 30, 2009 11:41:48 AM

Item ID:

D2580-1

Accept

Setup Start

Stop



**Revision ID:** 

D Item Name: 205 Skidtube bent detail

**Required Date:** 09/12/2009

**Start Date:** 

01/12/2009

Start Qty: 2.00

Req'd Qty: 2.00



**Cust Item ID:** 

Customer:



Reference:

Approvals:

Process Plan:

Date:

Tooling:

Date:

Run Start

QC:

Date:

SPC (Y/N):

Date:

Stop

Sequence ID/ **Work Center ID** 

140

Packaging

Operation Description

Identify as per dwg & Stock Location:

Set Up/ **Run Hours** 

Draw Number Draw Rev.

Plan Code

Reject Accept Qty

Reject Number

Insp. Stamp

Packaging

Memo

0.00

Qty

150

QC

Quality Control

QC21- Final Inspection - Work Order Release

0.00

Memo

0.00

W. 81,1203

Dart Aerospace	Ltd
----------------	-----

W/O:			WO	RK ORDER CHANG	GES	<del></del>			<del></del>		
DATE STEP		PRO	PROCEDURE CHANGE				Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector	
					:						
							<del></del>				
		·									
Part No	<u> </u>	PAR #:	Fault Cated	iorv:	NC	R: Yes	No <b>DO</b>	Δ-	Date:		
			Disposition: QA								
NCR:		<del></del>		R NON-CONFORM							
DATE	STEP	Description of NC	Corrective Action Section			Verific		cation Approval		Approval	
DAIL	SILF	Section A	Initial Chief Eng	Action Description Chief Eng		Sign & Date		on C	Chief Eng	QC Inspector	
			•								
									-		
				*							

Work Order ID: 54120

Parent Item:

D2580-1RevD

Parent Item Name: 205 Skidtube bent detail

Comments:



**Start Date:** 01/12/2009

Qty

**Required Date:** 09/12/2009

Start Qty: 2.00

Required Qty: 2.00

Component Item	ID/
Item Name	

Item ID

Replacement Mfg/ Purch

Primary Bin Item Location Last Location

Route Seq ID Unit of Qty on Hand Measure

Remaining Qty To Pick Issued

Date Issued

WM 9-12-02

Status

D2500-1-190RevG

Manufactured

No

Each

114.0000 2.0000



Ext'n -'I' Beam Tube 4"

Warehouse	Loc	Loc Code	
<b>Location</b>			
Main Warehouse			
LG	•	111	1.
50166		- 10	·•
52319		101	1
Main Warehouse			1
ST		3	
46468		3	
	110	Each	5.0000

D2596RevD

Manufactured

5.0000



Web, 205 Skidtube

Warehouse	Loc Qty	Loc Code
<b>Location</b>		]
Main Warehouse		-
· LG	5	İ
51528	4	
53263	1	Į.

AWM 9-4-02

### **Dart Aerospace Ltd**

	•									
W/O:			V	VORK ORDER CHANG	GES	<del></del>				
DATE	DATE STEP PROCEDURE CHANGE			IANGE	Ву	ı	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
·						i i				
Part No		PAR #:	Fault Ca	tegory:	NCR: Ye	es No	DQ/	<b>A</b> :	_ Date: _	
	Rese	olution:	Disposition: QA:			A: N/C Closed: Date:				
NCR:			WORK OR	DER NON-CONFORM	ANCE (N	CR)				
DATE	STEP	Description of NC		tion B	Verification App		Approval	Approval		
		Section A	Initial Chief Eng	Action Description Chief Eng		n & ate	Section	on C	Chief Eng	QC Inspector
							,,,,			



DESIG	*#	DRAWN BY	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA
CHEC	(ED,	APPROVED	DRAWING NO. REV. D
,			D2580 SHEET 1 OF 3
DATE			TITLE SCALE
07.0	2.27		205 SKIDTUBE ASSEMBLY NTS
Α		96.09.16	NEW ISSUE
В		96.12.02	AS MANUFACTURED
С		98.08.26	REDRAWN, INCLUDED DEO 9094/9097
D .		07.02.27	CHANGE TO SS WEARPLATES AND GASKETS, INCLUDE DEO 9124/9183

COPY THE SET

QTY -041	QTY -045	Part Number	Description	
Х		D2580-041	SKIDTUBE ASSEMBLY	7
	Х	D2580-045	SKIDTUBE ASSEMBLY	
1	1	D2500-1-190	EXTRUSION	
1	1	D2576-3	STEP	
20	24	D2579	CROSS BOLT SPACER	
16	16	D2594-1	PLUG	
16	16	D2594-3	O-RING	
1	1	D2596	205 WEB	
1	1 1	D2855	AFT CAP	7
1	1	D3564-5	WEARSHOE	
1	1	D3564-9	WEARSHOE	
1	1	D3564-11	WEARSHOE	
1	1	D3564-13	WEARSHOE	
2	2	D3566-1	GASKET	
1	1	D3566-5	GASKET	
1	1 1	D3566-13	GASKET	
1.0				
50	50	ALS7-1032-130	INSERT	SHOP COPY
	1	or AKS7-1032-130		RECURSO
		or AKS4-1032-130		
5		or AELS-1032-130		ENGINEER
50	50	AN3C4A	BOLT	TINCONTRO! LE CO
2	2	AN3-5A	BOLT	BUBJECT TO AND COMPANY
50	50	AN960C10L	WASHER	्रियम्भागः । अध्यस्य
2	2	AN960JD10L	WASHER	St. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.
EDAL N	OTES			NO 54120

#### **GENERAL NOTES:**

TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED

ALL DIMENSIONS ARE IN INCHES

INSERT D2596 WEB TO LOCATION SHOWN OFF AFT END OF SKIDTUBE AND BOND WEB INTO OUTER TUBE WITH NON-STRUCTURAL SIKAFLEX-241 ADHESIVE PER DART QSI 015 BEFORE BENDING. ENSURE HOLES LINE-UP.

- BEND AS A SMOOTH RADIUS STARTING WITH A MAXIMUM CENTERLINE RADIUS OF 60 AND ENDING WITH A MINIMUM RADIUS OF 30. A MAXIMUM REDUCTION OF 0.200 IN DIAMETER IS ALLOWABLE IN THE BENT PORTION OF THE TUBE.
- 5) USE DART DRILL TEMPLATE TD2577-205 TO LOCATE AND DRILL  $\varnothing$ 0.297 HOLES FOR WEARSHOE INSERTS. INSTALL ALS7-1032-130 PER SECTION D-D (50 PLACES) AFTER FINISH. INSTALL AN3C4A BOLTS AND AN960C10L WASHERS WITH SIKAFLEX-241/-291.
- 6) WELDING TO BE DONE PER DART QSI 004.

7) FINISH:

SEE NOTES ON PAGE 2 FOR D2580-041 AND PAGE 3 FOR D2580-045

8) INSERT D2594-1 PLUG C/W D2594-3 O-RING IN HOLES MARKED 'P' (BOTH SIDES OF TUBE) AFTER FINISH (16 PLACES).

Copyright @ 1996 by DART AEROSPACE LTD

THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.



